# IC 2303- Agile Software Development.

# CA6- Finalized Product Backlog of “Soleo”- A personalized Healthcare Application.

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| **ID** | **Feature** | **User Story** | **Description** | **Effort (T-Shirt Size)** | **Story Points** | **Sprint No** | **Status** | **Tasks** |
| US-1 | Appointment Scheduling | Schedule appointments with healthcare providers in my area. | I can receive timely medical care for my health concerns. | M | 3 | 1 | In Progress | - Develop UI for appointment search and selection.  - Integrate with provider availability data.  - Implement appointment booking functionality.  - Send confirmation email/notification to patient. |
| US-2 | Health Data Management | Track my health data and connect with wearable devices. | I can monitor my health trends and identify potential causes for health problems. | M | 3 | 1 | In Progress | - Design data entry screens for various health metrics (sleep, weight, etc.).  - Develop integration with wearable devices.  - Implement data visualization tools for health trends.  - Allow setting custom data collection preferences. |
| US-3 | Patient-Provider Communication | Securely communicate with healthcare providers. | I can ask questions and receive follow-up care efficiently. | M | 3 | 1 | In Progress | - Design secure chat interface for patient-provider communication.  - Implement real-time messaging or asynchronous communication options.  - Integrate user authentication and authorization for secure access.  - Allow file attachments (e.g., images) for richer communication. |
| US-4 | Patient Self-Management | Manage medication reminders and refill requests electronically. | I can stay on top of treatment plan. | S | 2 | 2 | To Do | - Develop medication reminder functionality with scheduling options.  - Integrate with pharmacy systems for refill requests (optional).  - Allow patients to view medication history and dosage information.  - Provide educational resources on medication adherence. |
| US-5 | Patient Self-Management | Access educational resources and information about my health conditions within the app. | I can make informed decisions about my healthcare. | M | 3 | Future Consideration | Future Consideration | -Design a knowledge base or resource library within the app.  - Integrate with healthcare information providers for credible content.  - Allow search functionality for specific health conditions.  - Personalize content recommendations based on user health data (optional). |
| US-6 | Caregiver Access (Optional) | Securely communicate with Sarah's healthcare providers on her behalf (with her consent). | I can advocate for her needs and receive updates on her condition. | M | 3 | Future Consideration | Future Consideration | - Implement role-based access control for caregivers with patient consent.  - Design secure communication channels for caregivers and providers.  - Allow limited access to patient medical information (configurable).  - Provide progress updates and notifications to authorized caregivers. |
| US-7 | Appointment Management | Manage a centralized appointment calendar with online booking capabilities. | Patients can easily schedule appointments and reduce phone call volume at the clinic. | M | 3 | 1 | In Progress | - Develop a central appointment calendar for staff management.  - Integrate online booking functionality for patient self-scheduling.  - Allow staff to view and manage appointment bookings.  - Implement cancellation and rescheduling options for appointments. |
| US-8 | Appointment Management | Send automated appointment confirmation and reminder notifications to patients. | Patients are informed and prepared for their appointments. | S | 2 | 1 | In Progress | - Design email/notification templates for appointment confirmations.  - Configure automated scheduling of confirmation and reminder messages.  - Allow customization of notification content and timing (e.g., email/SMS).  - Integrate with notification delivery platforms (email, SMS). |
| US-9 | Appointment Management | Manage waiting lists for appointments and prioritize them based on urgency. | Patients receive timely care and minimize wait times. | S | 2 | 2 | To Do | - Develop functionality for creating and managing waiting lists.  - Implement a prioritization system based on urgency criteria.  - Allow patients to add themselves to waiting lists for desired appointments.  - Provide real-time updates on waitlist position and estimated wait time. |
| US-10 | Electronic Health Records | Access complete medical history and profile of assigned patients. | I can provide informed diagnoses and treatment plans. | XS | 1 | 1 | In Progress | - Design a patient medical record viewer for healthcare providers.  - Integrate with existing healthcare data systems for patient information.  - Allow secure access to medical history, allergies, medications, etc.  - Provide filtering and search options for specific medical data. |
| US-11 | Electronic Health Records | Securely communicate with patients through the app. | I can answer their questions, provide follow-up care, and promote better patient engagement. | M | 3 | 3 | To Do | - Integrate secure messaging functionality with patient communication  - Develop tools for sending clinical instructions and educational materials.  - Allow secure video conferencing for virtual consultations (optional). |

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| US-12 | Telehealth | Conduct virtual consultations with healthcare providers. | I can receive medical care remotely through video conferencing. | M | 3 | 1 | To Do | - Develop video conferencing functionality. |
|  |  |  |  |  |  |  |  | - Integrate with appointment scheduling for telehealth visits. |
|  |  |  |  |  |  |  |  | - Allow for real-time audio-visual communication between patients and providers. |
| US-13 | Electronic Health Records | View patient-tracked health data trends. | I can gain a more holistic understanding of their health status by visualizing trends in their tracked health data. | S | 2 | 2 | To Do | - Integrate with patient health data tracking from US-2. |
|  |  |  |  |  |  |  |  | - Develop data visualization tools to display trends in weight, sleep patterns, etc. |
|  |  |  |  |  |  |  |  | - Allow filtering and comparison of health data over time. |
| US-14 | Electronic Health Records | View patient appointment history and upcoming appointments within the app. | I can efficiently manage my patient schedule and access appointment details. | XS | 1 | 2 | To Do | - Design a view for displaying patient appointment history. |
|  |  |  |  |  |  |  |  | - Integrate with appointment scheduling to show upcoming appointments. |
|  |  |  |  |  |  |  |  | - Allow access to appointment details (date, time, provider, etc.). |
| US-15 | Electronic Health Records | Securely collaborate with other healthcare providers involved in a patient's care through the app. | We can provide coordinated treatment plans and improve patient outcomes. | M | 3 | Future  Consideration | Future Consideration | - Implement secure chat functionality for provider-to-provider communication. |
|  |  |  |  |  |  |  |  | - Allow role-based access control for different healthcare professionals. |
|  |  |  |  |  |  |  |  | - Facilitate information sharing relevant to a patient's care plan. |
| US-16 | Medical Staff Tools | View a patient's basic medical information and vitals (within my privileges). | I can assist healthcare providers in delivering efficient patient care. | XS | 1 | 3 | To Do | - Design a view for displaying basic patient information (name, allergies, etc.). |
|  |  |  |  |  |  |  |  | - Integrate with Electronic Health Records (US-10) for vitals access. |
|  |  |  |  |  |  |  |  | - Limit access based on user roles and permissions. |
| US-17 | Medical Staff Tools | Update a patient's medical chart with observations and notes taken during examinations. | I can contribute to accurate and up-to-date patient medical records. | XS | 1 | 3 | To Do | - Develop functionality for adding notes and observations to patient charts. |
|  |  |  |  |  |  |  |  | - Allow secure documentation of findings and updates during examinations. |

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| US-18 | Medical Staff Tools | Generate and share reports based on patient health data. | I can efficiently communicate health insights to patients and other healthcare providers involved in a patient's care. | M | 3 | 4 | To Do | - Develop functionality for generating reports with customizable data visualizations (weight trends, medication adherence). |
|  |  |  |  |  |  |  |  | - Allow secure sharing of reports with patients and relevant healthcare providers. |
| US-19 | Patient Registration & Check-In | Electronically manage patient registration and check-in processes. | I can experience a smooth and streamlined arrival experience. | M | 3 | 5 | To Do | - Develop a digital registration form for collecting patient information. |
|  |  |  |  |  |  |  |  | - Integrate with appointment scheduling to pre-populate information. |
|  |  |  |  |  |  |  |  | - Allow patients to update personal information electronically. |
|  |  |  |  |  |  |  |  | - Implement a digital check-in process to reduce wait times. |
| US-20 | Patient Education & Resources | Provide educational resources and tools to patients based on their health conditions. | I can make informed decisions about my health and well-being. | M | 3 | 6 | To Do | - Integrate with a healthcare information database for credible content. |
|  |  |  |  |  |  |  |  | - Develop a personalized recommendation system based on user health data (optional). |
|  |  |  |  |  |  |  |  | - Allow patients to search for specific health topics and conditions. |
| US-21 | Patient-Provider Communication | Enable secure video chat functionality for consultations. | I can have a more interactive and engaging experience with my healthcare provider during virtual consultations. | S | 2 | 6 | To Do | - Integrate secure video chat functionality with appointment scheduling. |
|  |  |  |  |  |  |  |  | - Allow screen sharing for presentations or medical images during consultations. |

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